Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1.   (Currently Amended) A service providing system for correlating service to a virtual object which is data having spatial information, relating to shape and location, constructed on a computer corresponding to a specified space, for disposing the virtual object in a virtual space associated with an actual space, and for providing service corresponding to the specified space according to a positional relationship between a movable mobile member and the virtual object, comprising:

a storage device that associates object information related to the spatial information of the virtual object with service information specifying a service content, and that stores the object information and service information; and

a location-information acquisition device that obtains location information used for identifying a location of the mobile member,

when it is determined according to the location information obtained by the location-information acquisition device and the object information stored in the storage device that the mobile member is disposed in an inside area of the specified space identified by the shape and location of the virtual object, service corresponding to the specified space being provided according to the service information stored in the storage device,

the object information including information, the information providing a time ~~condition~~ duration for construction of the virtual object.

2.   (Previously Presented) A service providing system according to claim 1,

the mobile member and a management terminal that manages the specified space being connected in a communication-allowed manner;

the mobile member includes the location-information acquisition device, and sends the location information obtained by the location-information acquisition device to the management terminal; and

the management terminal having the storage device, and when the management terminal receives the location information, the management terminal determines, according to the received location information and the object information stored in the storage device, whether the mobile member is disposed in the inside area of the specified space identified by the shape and location of the virtual object.

3. (Previously Presented) A service providing system according to claim 1,

the mobile member and a management terminal that manages the virtual object being connected in a communication-allowed manner;

the management terminal includes the storage device, and sends the object information stored in the storage device to the mobile member; and

the mobile member includes the location-information acquisition device, and when the mobile member receives the object information, the mobile member determines, according to the location information obtained by the location-information acquisition device and the received object information, whether the mobile member is disposed in the inside area of the specified space identified by the shape and location of the virtual object.

4. (Previously Presented) A service providing system according to claim 2,

wherein, when the result of the determination indicates that the mobile member is disposed in the inside area of the specified space identified by the shape and location of the virtual object, the management terminal provides service corresponding to the virtual object based on the service information stored in the storage device.

5. (Previously Presented) A service providing system according to claim 2,

the management terminal sending the service information stored in the storage device to the mobile member in advance, and

when the result of the determination indicates that the mobile member is disposed in the inside area of the specified space identified by the shape and location of the virtual object, the mobile member provides service corresponding to the specified space based on the received service information.

6. (Currently Amended) A service providing system according to claim 2, the management terminal further comprising:

an input device that performs an input related to at least one of generation, ~~deletion,~~ update and deletion ~~update~~ of the object information; and

an object-information processing device that performs at least one of ~~generates,~~ generating, updating ~~deletes~~ and deleting ~~or updates~~ the object information according to the content of the input performed by the input device.

7. (Previously Presented) A service providing system according to claim 1,

the service information being operation information specifying a content of an operation of the mobile member or another apparatus, and

when it is determined that the mobile member is disposed in the inside area of the specified space identified by the shape and location of the virtual object, the mobile member or the another apparatus is operated based on the operation information corresponding to the specified space stored in the storage device.

8. (Previously Presented) A service providing system according to claim 1,

the service information specifying a content of service in which media information related to at least one of characters, images, and video is provided for the mobile member, and

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when it is determined that the mobile member is disposed in the inside area of the specified space identified by the shape and location of the virtual object, the media information is provided for the mobile member based on the service information corresponding to the specified space, stored in the storage device.

9.   (Previously Presented) A service providing system according to claim 1,

the service information specifying a content of service in which notice information related to at least one of a notice and guidance information related to a guidance is provided for the mobile member, and

when it is determined that the mobile member is disposed in the inside area of the specified space identified by the shape and location of the virtual object, the notice information and the guidance information are provided for the mobile member based on the service information corresponding to the specified space, stored in the storage device.

10.   (Previously Presented) A service providing system according to claim 1, the mobile member being a portable terminal.

11.   (Currently Amended) A service providing system for correlating service to a virtual object which is data having spatial information, relating to shape and location, constructed on a computer corresponding to a specified space, for disposing the virtual object in a virtual space associated with an actual space, and for providing service corresponding to the specified space based on a positional relationship between a movable mobile member and the specified space, comprising:

a storage device that associates object information related to the virtual object with operation information specifying a content of an operation of the mobile member or another apparatus, and that stores the object information and the operation information,

when it is determined, according to the object information stored in the storage device, that the positional relationship between the mobile member and the specified space

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satisfies a predetermined condition, the mobile member or the another apparatus being

operated based on the operation information corresponding to the specified space stored in the

storage device,

the object information including information, the information providing a time

~~condition~~duration for construction of the virtual object.

12.   (Currently Amended) A service providing system for correlating service to a

virtual object which is having spatial information, relating to shape and location, constructed

on a computer corresponding to a specified space, for disposing the virtual object in a virtual

space associated with an actual space, and for providing service corresponding to the

specified space according to a positional relationship between a movable mobile member and

the virtual object, comprising:

a storage device that associates object information related to the virtual object

with service information specifying the content of service, and that stores the object

information and service information;

an input device that performs an input related to at least one of generation,

~~deletion, and~~ update and deletion of the object information; and

an object-information processing device that performs at least one of

~~generates, deletes, or updates~~ generating, updating and deleting the object information

according to the content of the input performed by the input device,

when it is determined according to the object information stored in the storage

device that the positional relationship between the mobile member and the specified space

satisfies a predetermined condition, the service corresponding to the specified space being

provided based on the service information stored in the storage device,

the object information including information, the information providing a time

~~condition~~ duration for construction of the virtual object.

13.   (Previously Presented) A terminal connected to the mobile member used in a service providing system according to claim 2 in a communication-allowed manner, comprising a storage device,

wherein, when the terminal receives the location information, the terminal determines, according to the received location information and the object information stored in the storage device, whether the mobile member being disposed in the inside area of the specified space identified by the shape and location information of the virtual object.

14.   (Previously Presented) A mobile member connected to the management terminal used in a service providing system according to claim 3 in a communication-allowed manner, comprising a location-information acquisition device,

wherein, when the mobile member receives the object information, the mobile member determines, according to the location information obtained by the location-information acquisition device and the received object information, whether the mobile member being disposed in the inside area of the specified space identified by the shape and location of the virtual object.

15.   (Currently Amended) A service providing program stored on a computer readable medium for correlating service to a virtual object which is data having a spatial information, relating to shape and location, constructed on a computer corresponding to a specified space, for disposing the virtual object in a virtual space associated with an actual space, and for providing service corresponding to the specified space according to a positional relationship between a movable mobile member and the virtual object, the program making a computer, which is capable of using a storage device that associates and stores object information related to the shape and location of the virtual object with service information specifying a service content, and a location-information acquisition device that obtains

location information used for identifying the location of the mobile member, ~~execute~~

~~processing in which~~the program comprising:

   instructions for, when it is determined according to the location information

obtained by the location-information acquisition device and the object information stored in

the storage device that the mobile member is disposed in the inside area of the specified space

identified by the shape and location of the virtual object, the object information including

information, the information providing a time ~~condition~~ duration for construction of the

virtual object, providing the service corresponding to the specified space ~~being provided~~

based on the service information and the information stored in the storage device.

   16. (Currently Amended) A service providing program stored on a computer

readable medium for correlating service to a virtual object which is data having a spatial

information, relating to shape and location, constructed on a computer corresponding to a

specified space, for disposing the virtual object in a virtual space associated with an actual

space, and for providing service corresponding to the specified space according to a positional

relationship between a movable mobile member and the specified space, the program making

a computer, which is capable of using a storage device that associates and stores object

information related to the virtual object with operation information specifying a content of an

operation of the mobile member or another apparatus, ~~execute processing in which~~the

program comprising:

   instructions for, when it is determined according to the object information

stored in the storage device that the positional relationship between the mobile member and

the specified space satisfies a predetermined condition, the object information including

information, the information providing a time ~~condition~~ duration for construction of the

virtual object, operating the mobile member or the another apparatus ~~is operated~~based on the

operation information corresponding to the specified space and the information stored in the storage device.

17.   (Currently Amended) A service providing program stored on a computer readable medium for correlating service to a virtual object having spatial information, relating to shape and location, constructed on a computer corresponding to a specified space, for disposing the virtual object in a virtual space associated with an actual space, and for providing service corresponding to the specified space according to a positional relationship between a movable mobile member and the specified space, the program making a computer, which is capable of using a storage device that associates and stores object information related to the virtual object with service information specifying the content of service, the object information including information, executethe program comprising:

instructions for processing in which, when it is determined according to the object information stored in the storage device that the positional relationship between the mobile member and the specified space satisfies a predetermined condition, the object information including information, the information providing a time condition duration for construction of the virtual object, providing the service corresponding to the specified space is provided based on the service information and the information stored in the storage device, and

processing implemented as an input device that performs instructions for performing an input related to at least one of generation, deletion, and update and deletion of the object information, and object information processing device that

instructions for performing at least one of generating, updating and deleting generates, deletes, or updates the object information according to a content of the input performed by anthe input device.

18.   (Currently Amended) A service providing method for correlating service to a virtual object having spatial information, relating to shape and location, constructed on a computer corresponding to a specified space, for disposing the virtual object in a virtual space associated with an actual space, and for providing service corresponding to the specified space based on a positional relationship between a movable mobile member and the specified space, comprising:

associating and storing object information related to the shape and location of the virtual object with service information specifying a service content, the object information including information, the information providing a time ~~condition~~ duration for construction of the virtual object; and

obtaining location information used for identifying the location of the mobile member; and

when it is determined, according to the obtained location information and the stored object information, that the mobile member is disposed in the inside area of the specified space identified by the shape and location of the virtual object, providing service corresponding to the specified space according to the stored service information and the stored information.

19.   (Currently Amended) A service providing method for correlating service to a virtual object having spatial information, relating to shape and location, constructed on a computer corresponding to a specified space, for disposing the virtual object in a virtual space associated with an actual space, and for providing service corresponding to the specified space according to a positional relationship between a movable mobile member and the specified space, comprising:

associating and storing object information related to the virtual object with operation information specifying the content of an operation of the mobile member or another

apparatus, the object information including information, the information providing a time ~~condition~~ duration for construction of the virtual object; and

when it is determined according to the stored object information that the positional relationship between the mobile member and the specified space satisfies a predetermined condition, the mobile member or the another apparatus is operated based on the stored operation information corresponding to the specified space and the stored information.

20.   (Currently Amended) A service providing method for correlating service to a virtual object which is data having spatial information, relating to shape and location, constructed on a computer corresponding to a specified space, for disposing the virtual object in a virtual space associated with an actual space, and for providing service corresponding to the specified space according to a positional relationship between a movable mobile member and the specified space, comprising:

associating and storing object information related to the virtual object with service information specifying the content of service, the object information including information, the information providing a time ~~condition~~ duration for construction of the virtual object;

when it is determined according to the stored object information that the positional relationship between the mobile member and the specified space satisfies a predetermined condition, providing the service corresponding to the specified space based on the stored service information and the information;

performing an input related to at least one of generation, ~~deletion, and update~~ update and deletion of the object information; and

at least one of generating, ~~deleting, and~~ updating and deleting the object information based on the content of the performed input.

21. (Previously Presented) A service providing system according to claim 1, the system further comprising:

an input device that generates the data for the virtual object, the input device transmitting the data to the storage device, the storage device registering the data and associating the object information with the service information.

22. (Previously Presented) A service providing system according to claim 11, the system further comprising:

an input device that generates the data for the virtual object, the input device transmitting the data to the storage device, the storage device registering the data and associating the object information with the service information.

23. (Previously Presented) A service providing program according to claim 15, ~~the processing including~~the program further comprising:

instructions for implementing an input device that generates the object information and transmits the object information to the storage device.

24. (Previously Presented) A service providing program according to claim 16, the program further comprising:

instructions for ~~the processing including~~implementing an input device that generates the object information and transmits the object information to the storage device.

25. (Previously Presented) A service providing method according to claim 18, the method further comprising:

generating data for the virtual object and transmitting the data to a storage device for registering.

26. (Previously Presented) A service providing method according to claim 19, the method further comprising:

generating data for the virtual object and transmitting the data to a storage device for registering.

27.   (Currently Amended) A service providing system for correlating service to a virtual object which is having spatial information, relating to shape and location, constructed on a computer corresponding to a specified space, for disposing the virtual object in a virtual space associated with an actual space, and for providing service corresponding to the specified space according to a positional relationship between a movable mobile member and the virtual object, comprising:

a storage device that associates object information related to the virtual object with service information specifying the content of service, and that stores the object information and service information;

an input device that performs an input related to at least one of generation, ~~deletion, and~~ update and deletion of at least one of the object information and the service information related to the virtual object; and

an object-information processing device that performs at least one of ~~generates, deletes, or updates~~ generating, updating and deleting the at least one of the object information and the service information related to the virtual object according to the content of the input performed by the input device;

when it is determined according to the object information stored in the storage device that the positional relationship between the mobile member and the specified space satisfies a predetermined condition, the service corresponding to the specified space is provided based on the service information stored in the storage device, and

when it is determined according to the object information stored in the storage device that the positional relationship between the input device and the specified space satisfies a predetermined condition, the object-information processing device performing at

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least one of generation, deletion and update of the at least one of the object information and the service information according to the content of the input performed by the input device.

     28.   (Currently Amended) A service providing program <u>stored on a computer readable medium</u> for correlating service to a virtual object which is data having a spatial information, relating to shape and location, constructed on a computer corresponding to a specified space, for disposing the virtual object in a virtual space associated with an actual space, and for providing service corresponding to the specified space according to a positional relationship between a movable mobile member and the virtual object, the program making a computer, which is capable of using a storage device that associates and stores object information related to the shape and location of the virtual object with service information specifying a service content, and a location-information acquisition device that obtains location information used for identifying the location of the mobile member, <u>the program comprising</u><s>execute processing in which</s>:

     <s>processing implemented as an input device that performs</s> <u>instructions for performing</u> an input related to at least one of generation, <s>deletion, and</s> update <u>and deletion</u> of at least one of the object information and the service information, <s>and</s>

     <u>instructions for</u> <s>object-information processing device that generates, deletes, or updates</s><u>performing at least one of generation, update and deletion of</u> the at least one of the object information and the service information according to a content of the input performed by <s>the</s><u>an</u> input device,

     <u>instructions for,</u> when it is determined according to the location information obtained by the location-information acquisition device and the object information stored in the storage device that the mobile member is disposed in the inside area of the specified space identified by the shape and location of the virtual object, <u>providing</u> the service corresponding

to the specified space ~~being provided~~ based on the service information stored in the storage device, and

instructions for, when it is determined according to the object information stored in the storage device that the positional relationship between the input device and the specified space satisfies a predetermined condition, performing at least one of generation, ~~deletion and~~ update, and deletion of the at least one of the object information and the service information according to the content of the input performed by the input device.

29. (Currently Amended) A service providing method for correlating service to a virtual object having spatial information, relating to shape and location, constructed on a computer corresponding to a specified space, for disposing the virtual object in a virtual space associated with an actual space, and for providing service corresponding to the specified space based on a positional relationship between a movable mobile member and the specified space, comprising:

associating and storing object information related to the shape and location of the virtual object with service information specifying a service content; and

obtaining location information used for identifying the location of the mobile member; ~~and~~

~~processing implemented as an input device that~~ perform~~ing~~s an input related to at least one of generation, ~~deletion, and~~ update and deletion of at least one of the object information and the service ~~information,~~ information; and ~~object information processing device that~~

performing at least one of ~~generates, deletes, or updates~~ generation, update and deletion of the at least one of the object information and the service information according to a content of the input performed by ~~the~~ an input ~~device,~~ device;

when it is determined, according to the obtained location information and the stored object information, that the mobile member is disposed in the inside area of the specified space identified by the shape and location of the virtual object, providing service corresponding to the specified space according to the stored service information, and

when it is determined according to the object information stored in the storage device that the positional relationship between the input device and the specified space satisfies a predetermined condition, performing at least one of generation, ~~deletion and update~~update and deletion of the at least one of the object information and the service information according to the content of the input performed by the input device.